

## A B S T R A C T

The invention provides a method of fabricating a steel part, the method comprising the steps of:

- 5       · preparing and casting a steel having the following composition in percentage by weight:  $0.06\% \leq C \leq 0.25\%$ ;  $0.5\% \leq Mn \leq 2\%$ ;  $traces \leq Si \leq 3\%$ ;  $traces \leq Ni \leq 4.5\%$ ;  $traces \leq Al \leq 3\%$ ;  $traces \leq Cr \leq 1.2\%$ ;  $traces \leq Mo \leq 0.30\%$ ;  $traces \leq V \leq 2\%$ ;  $traces \leq Cu \leq 3.5\%$ ; and satisfying at  
10   least one of the following conditions:

      \*  $0.5\% \leq Cu \leq 3.5\%$ ;

      \*  $0.5\% \leq V \leq 2\%$ ;

      \*  $2 \leq Ni \leq 4.5\%$  and  $1\% \leq Al \leq 2\%$ ;

- 15   the remainder being iron and impurities resulting from preparation;

      · hot deforming the cast steel at least once at a temperature in the range  $1100^{\circ}\text{C}$  to  $1300^{\circ}\text{C}$  in order to obtain a blank of the part;

- 20   · controlled cooling of the blank for the part in still air or forced air; and

      · heating the steel to perform precipitation annealing before or after machining the part from said blank.

- 25   The invention also provides a part obtained by the method.